#### (19) World Intellectual Property Organization International Bureau



# 

#### (43) International Publication Date 7 April 2005 (07.04.2005)

### (10) International Publication Number WO 2005/031224 A3

(51) International Patent Classification: A47F 3/04 (2006.01) F25D 17/04 (2006.01)

(21) International Application Number:

PCT/US2004/031438

(22) International Filing Date:

27 September 2004 (27.09.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/506,532

26 September 2003 (26.09.2003)

(71) Applicant (for all designated States except US): SSW HOLDING COMPANY, INC. [US/US]; 3501 South Tulsa, Fort Smiths, AR 72903 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): MCMILLIN, Matthew, J. [US/US]; 4216 Highland Oaks Drive, New Albany, IN 47150 (US).

(74) Agent: LOCKHART, Thomas, L.; Varnum, Riddering, Schmidt & Howlett LLP, P.O. Box 352, Grand Rapids, MI 495080352 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, 7.W.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM. ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

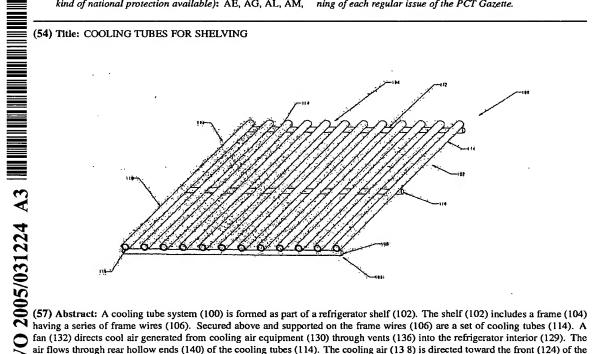
#### Published:

with international search report

before the expiration of the time limit for amending the claims and to be republished in the event of receipt of

(88) Date of publication of the international search report: 8 June 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



fan (132) directs cool air generated from cooling air equipment (130) through vents (136) into the refrigerator interior (129). The air flows through rear hollow ends (140) of the cooling tubes (114). The cooling air (138) is directed toward the front (124) of the refrigerator (120).

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/31438

A. CLASSIFICATION OF SUBJECT MATTER IPC(8): A47F 3/04( 2006.01);F25D 17/04( 2006.01)			
USPC: 62/255,256,407 According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 62/255,256,407			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST Search			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
Х	US 2,962,875 A (Barroero) 06 December 1960 (06.12.1960), Figures 2, 5 and 6; col. 1, lines 57-64		1-3, 9-11, and 13
Y			4-8
Y	US 3,168,818 A (Weber) 09 February 1965 (09.02.1965), Figure 1, 37,38,40		12
Further documents are listed in the continuation of Box C.		See patent family annex.  "T" later document published after the intern	
Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
particular relevance  "E" earlier application or patent published on or after the international filing date		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) consumption of the priority of the consumption of the			
		obvious to a person skilled in the art	
"P" document published prior to the international filing date but later than the "&" priority date claimed			
	tual completion of the international search	Date of mailing of the international search	тероп
Name and mailing address of the ISA/IS Authorized officer			
Mail	Stop PCT, Attn: ISA/US	MCCRAW BARRY (B)CWAYTON) C	
Commissioner for Patents P.O. Box 1450		For Vugnua Stoy	
Alexandria, Virginia 22313-1450			
Facsimile No. (571) 273-3201			

Form PCT/ISA/210 (second sheet) (April 2005)